

**THE EFFECT OF SOYBEAN EXTRACT (*Glycine max*) AGAINST
TOTAL GROWTH OF OVARIAN FOLLICLES
IN MICE (*Mus musculus*)**

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ABSTRACT

This study aimed to determine the effect of soybean extracts (*Glycine max*) on the the total number of ovarian follicles growth in mice (*Mus musculus*). The sample consisted of 20 mice were randomly divided into five groups. The control group (K) was not given the soybean extract. P1 group was given soybean extract with dose 0.05 mg/ kgBW. P2 group was given soybean extract with dose of 0.010 mg/ kgBW. P3 group was given soybean extract with dose of 0,015 mg/ kgBW. P4 group given soybean extract with dose of 0,020 mg/ kgBW. The soybean extracts conducted for 14 days. Data analysis used One Way ANOVA and continued by Honestly Significant Difference (HSD). The results showed the control group (K) has significant difference with P1, P2, P3 and P4 group. The results of the average number of primary follicles were highest for treatment 4 (P4) with dose of 0,020 mg/ kgBW and the average number of secondary follicles were highest in treatment 3 (P3) at a dose of 0.015 mg/ kgBW. It can be concluded that soybean extract in female mice can increase the number of ovarian follicles and the highest average number of follicles was on treatment 3 (P3) with dose 0.015 mg/ kgBW.

Keywords: Soybean extract, Follicle, Ovary, Mice.